CONTENTS OF VOLUME 43

Numbers 1–6

Editorial

1 Ocean Storage of nuclear wastes? Experiences from the Russian Arctic
Michael A. Champ, Leo S. Gomez, Vyacheslav M. Makeyev, James M. Brooks, Harold D. Palmer and Frederick Betzl

Reports

8 Radioactive Waste Disposal in Seas Adjacent to the Territory of the Russian Federation
A. V. Yablokov

19 Environment and Biology of the Kara Sea: a General View for Contamination Studies
J. C. Miquel

28 Northern Ocean Inventories of Organochlorine and Heavy Metal Contamination
K. Crane, J. Galasso, C. Brown, G. Cherkashov, G. Ivanov, V. Petrova and B. Vanstayan

61 Two Regimes of the Arctic's Circulation from Ocean Models with Ice and Contaminants
A. Y. Proshutinsky and M. Johnson

71 Organochlorine Pesticide and Trace Metal Monitoring of Russian Rivers Flowing to the Arctic Ocean: 1990–1996
L. B. Alexeeva, W. M. J. Strachan, V. V. Shlychkova, A. A. Nazarova, A. M. Nikanorov, L. G. Korotova and V. I. Koreneva

86 Potential for Photoenhanced Toxicity of Spilled Oil in Prince William Sound and Gulf of Alaska Waters
M. G. Barron and L. Ka'aihue

93 Persistent Organic Pollutants (POPs) in a Small, Herbivorous, Arctic Marine Zooplankton (*Calanus hyperboreus*): Trends from April to July and the Influence of Lipids and Trophic Transfer
A. T. Fisk, G. A. Stern, K. A. Hobson, W. J. Strachan, M. D. Loewen and R. J. Norstrom

102 Sorption of Radioactive Contaminants by Sediment from the Kara Sea
M. Fuhrmann, H. Zhou, J. Neiheisel and R. Dyer

111 Modeling the Potential Radionuclide Transport by the Ob and Yenisey Rivers to the Kara Sea
T. Paluszkiewicz, L. F. Hibler, M. C. Richmond, D. J. Bradley and S. A. Thomas

122 Organochlorine Compounds and Aliphatic Hydrocarbons in Pacific Walrus Blubber
D. J. Seagars and J. Garlich-Miller

132 Spatial Differences in Persistent Organochlorine Pollutant Concentrations between the Bering and Chukchi Seas (1993)
W. M. J. Strachan, D. A. Burniston, M. Williamson and H. Bohdanowicz

Numbers 7–12

Editorial

143 Introduction to the Special Issue of Marine Pollution Bulletin: Selected Papers from the Fourth International Marine Environmental Modelling Seminar, Athens, Greece, October 2000
M. Reed and K. Nittis

Reports

145 A Numerical Simulation of the Seasonal Cycle of Temperature, Salinity and Velocity Fields in Tokyo Bay
F. Horiguchi, J. Yamamoto and K. Nakata

154 Operational Monitoring and Forecasting in the Aegean Sea: System Limitations and Forecasting Skill Evaluation
K. Nittis, V. Zervakis, L. Perivoliotis, A. Papadopoulos and G. Chronis

164 A Semi-Evolutive Partially Local Filter for Data Assimilation
I. Hoteit, D.-T. Pham and J. Blum

175 Assessing Marine Ecosystem Response to Nutrient Inputs
T. George, P. George, D. Costas and A. Theodorou

187 A New Coastal Marine Ecosystem Model Study Coupled with Hydrodynamics and Tidal Flat Ecosystem Effect
A. Sohma, Y. Sekiguchi, H. Yamada, T. Sato and K. Nakata

209 Strategies for Transforming Fine Scale Knowledge to Management Usability
K. W. Wirtz

215 Assessment of Management Options in Marine Fisheries by Qualitative Modelling Techniques
K. Eisenack and J. Kropp

225 A Hybrid Near-Field/Far-Field Thermal Discharge Model for Coastal Areas
S. W. Suh

234 A Model for Deepwater Oil/Gas Blowouts
P. D. Yapa, L. Zheng and F. Chen

242 A Model of PCB Bioaccumulation in the Sea Bass Food Web from the Seine Estuary (Eastern English Channel)
V. Loizeau, A. Abarnou, P. Cugier, A. Jaouen-Madoulet, A.-M. Le Guellec and A. Menesguen

256 Overview of US Minerals Management Service Activities in Deepwater Research
R. LaBelle

262 Development of a Data Visualization and Analysis Tool to Study the Particle Dynamics in the Coastal Zone
D. Kitsiou, X. D. de Madron and P. A. Arnau

270 The Poseidon Operational Tool for the Prediction of Floating Pollutant Transport
P. Annika, T. George, P. George, N. Konstantinos, D. Costas and C. Koutitas